

## CITATION OF PRIOR ART

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FORM PTO-149 (REV. 8-83)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. P-0800(O)-3	APPLICATION SERIAL NO. 08/462,147
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)		APPLICANT Hyal Pharmaceutical Corporation	
		FILING DATE June 5, 1995	GROUP 1211

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
LP	4,141,973	02-1979	Balazs			
LP	4,582,865	04-1986	Balazs et al.			
LP	4,636,524	01-1987	Balazs et al.			
LP	4,711,780	12-1987	Fahim			
CM	4,725,585	02-1988	Wenge et al.			
CM	4,736,024	04-1988	Della Valle et al.			
LA	4,755,544	07-1988	Makino et al.			
LA	4,795,741	01-1989	Leshchiner et al.			
LA	4,801,619	01-1989	Lindblad			
LA	4,808,576	02-1989	Schultz et al.			
LA	4,814,176	03-1989	Makino et al.			
LP	4,840,941	06-1989	Ueno et al.			
LA	4,851,521	07-1989	della Valle et al.			
LA	4,937,254	06-1990	Sheffield et al.			
LP	4,957,744	09-1990	della Valle et al.			
LP	4,965,353	10-1990	della Valle et al.			
LP	4,970,298	11-1990	Silver et al.			
LP	074338,106	04-1989	Falk			

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
CA	1,205,031	05-1986	Canada			
CA	1,240,929	08-1988	Canada			
EP	0 138 572	04-1985	Europe			
EP	0 179 442	04-1986	Europe			
EP	0 197 718	10-1986	Europe			
EP	0 208 623	01-1987	Europe			
EP	0 216 453	04-1987	Europe			
EP	0 224 987	06-1987	Europe			

\*This was taken from Application Serial No.07/675,908

FORM PTO-1449 (REV. 8-83)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. P-0800(0)-3	APPLICATION SERIAL NO. 08/462,147
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## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
61	0 240 098	10-1987	Europe			
61	0 265 116	04-1988	Europe			
61	0 270 317	06-1988	Europe			
61	0 285 357	10-1988	Europe			
61	0 287 210	10-1988	Europe			
61	0 295 092	12-1988	Europe			
61	0 296 740	12-1988	Europe			
11						
	63/045223		Japan - English translation will follow			
61000017	61000017	01-1986	Japan - English translation will follow			
61	WO 88/07060	09-1988	PCT			
61	WO 89/07932	09-1989	PCT			
61	WO 91/04058	04-1991	Int'l Search Report			

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

61	Sandra Blakeslee, "Solid cores of tumors keeping out best drugs", July 8, 1989 edition of the <u>Globe and Mail</u> , Toronto, Ontario, Page D4.
61	Pam Harrison, "Toxic drug tamed but still potent" <u>Ontario Medicine</u> , Volume 8, No. 16 dated August 21, 1989, Page 1.
61	<u>The Merck Index</u> Eleventh Edition, Centennial Edition, Hyaluronic Acid formulation, Pages 751 and 752.
61	Alan R. Liss, Inc., Modulation of Immunity in Cancer Patients by Prostaglandin Antagonists, <u>Immunity to Cancer II</u> (will follow)
61	Goodwin, J.S. Prostaglandin E and Cancer Growth Potential for Immunotherapy with Prostaglandin Synthesis Inhibitors, <u>Augmentive Agents in Cancer Therapy</u> , Raven Press, New York, (1981) (will follow)
61	Dr. Samuel Asculai, "Inactivation of Herpes Simplex Viruses by Nonionic Surfactants", <u>Antimicrobial Agents and Chemotherapy</u> , April 1978, pp. 686-690. (will follow)

EXAMINER <i>S. Reiter</i>	DATE CONSIDERED <i>6/6/96</i>
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



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5010-1449 (REV. 8-83)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. P-0800(O)-3	APPLICATION SERIAL NO. 08/462,147
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		FILING DATE June 5, 1995	GROUP 1211	

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
U	2,583,096	01-1952	Hadidian et al			
U	3,436,454	04-1969	Nouvel			
U	3,887,703	06-1975	Manoussos et al			
U	4,272,522	06-1981	Balazs			
U	4,716,224	12-1987	Sakurai et al.			
U	4,853,226	08-1989	Machida et al.			
U	4,946,870	08-1990	Partain, III. et al.			

FOREIGN PATENT DOCUMENTS

Document No.	Date	Country	Class	Sub-Class	Translation
			Class	Sub-Class	YES NO
B-72117/87	12-1987	Australia			
B-17459/88	12-1988	Australia			
30806/84	07-1984	Australia			
0,378,852	12-1989	Europe			
1,283,892	08-1972	Great Britain			
2,099,826-A	12-1982	Great Britain			
A-116678/88 Application	11-1989 Laid-Open-to-Public	Japan			Yes
61-233,622	10-1986	Japan			No
57-183,707	12-1982	Japan			Yes
2,364,373	10-1975	Germany			Yes

\*This was taken from Application Serial No. 07/675,908

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**OTHER DOCUMENTS** (Including Author, Title, Date, Pertinent Pages, Etc.)

4	Alaverdyan MI, Ter-Avetisyan AT. <b>Effect of hyaluronidase, hyaluronic acid, and some other substances on postradiational experimental bacteriemia.</b> <i>Bulletin of Experimental Biology and Medicine</i> 1967; 64(9): 967-969.
4	Balazs EA, Gibbs DA. <b>The rheological properties and biological function of hyaluronic acid.</b> In: <i>Chemistry and Molecular Biology of the Intercellular Matrix. Volumes III.</i> New York: Academic Press, 1970. PP. 1241-1253.
4	Balazs EA, Band P. <b>Hyaluronic acid: Its structure and use.</b> <i>Cosmetics &amp; Toiletries . Polymers in Cosmetics</i> 1984; 99: 65-72.
4	Camber O, Lundgren P. <b>Diffusion of some low molecular weight compounds in sodium hyaluronate.</b> <i>Acta Pharmaceutica Suecica</i> 1985; 22(6): 315-320.
4	Camber O, Edman P, Gurny R. <b>Influence of sodium hyaluronate on the meiotic effect of pilocarpine in rabbits.</b> <i>Current Eye Research</i> 1987; 6(6): 779-784.
4	Chang S-C. <b>Pro-drug and vehicle approaches to improve the therapeutic index of topically applied timolol in the pigmented rabbit.</b> <i>Dissertation Abstracts International</i> 1988; 49(2): 367-B.

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6	Cravicto, R.O., et al. <b>Effects of Precipitates Formed by Insulin with Hyaluronic Acid and Mucoid From Vitreous Humor in Depressing Blood-Sugar Levels</b> <i>Science</i> (1950); Vol. 111: 520-521
7	Gieldanowski, Jerzy; Skowronska, Jadwiga <b>Studies on immunosuppressive and anti-inflammatory effect of adriamycin.</b> <i>Arch. Immunol. Ther. Exp.</i> (1980); 28 (3): 439-446
7	Hassan HG, Akerman B, Ranck H, Lindberg B, Lindquist B. <b>Effects of adjuvants to local anaesthetics on their duration.</b> <i>Acta Anaesthesiol. Scand.</i> 1985; 29: 384-388.
7	Hurd ER <b>Immunosuppressive and anti-inflammatory properties of cyclophosphamide, azathioprine and methotrexate.</b> <i>Arthritis and Rheumatism</i> (1973 Jan-Feb); 16 (1): 84-88
7	Idson B. <b>Polymers in skin cosmetics.</b> <i>Cosmetics &amp; Toiletries</i> 1988; 103: 63-68.
7	Johansson A, Hassan H, Renck H. <b>Effects of adjuvants to local anaesthetics on their duration.</b> <i>Acta Anaesthesiol. Scand.</i> 1985; 29: 736-738.
7	Kalbhen D.A. <b>The inhibitory effects of steroid and non-steroidal antirheumatic drugs on articular cartilage in osteoarthritis and its counteraction by a biological GAG-peptide complex (Rumalon®).</b> <i>Z. Rheumatol</i> (1982); 41: 202-211

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4	Katsu M., Abe T., Shimada S. <b>Significance and clinical use of non-steroid anti-inflammatory drugs as substitutes for steroids in steroid dependence.</b> <i>Nippon Rinsho</i> (1968 Jan); 26(1): 89-95
4	Kreis H, Chkoff N, Droz D, et al. <b>Nonsteroid anti-inflammatory agents as a substitute treatment for steroids in ATGAM-treated cadaver kidney recipients.</b> <i>Transplantation</i> (1984 Feb.); 37(2): 139-145
4	McIlwraith W. <b>Current concepts in equine degenerative joint disease.</b> <i>Journal of the American Veterinary Medical Association</i> 1982; February 1: 239-250.
4	Mizushima, Y. <b>Possibility of non-steroid anti-inflammatory drugs as a substitute for steroids-analysis of the present situation and demands for the future.</b> <i>Nippon Rinsho</i> (Jan. 1986); 26(1): 61-65
4	Nizolek DJH, White KK. <b>Corticosteroid and hyaluronic acid treatments in equine degenerative joint disease: A review.</b> <i>The Cornell Veterinarian</i> 1981; 71(4): 355-375.
4	Pigman W, et al. <b>Acide hyaluronique et facteurs de perméabilité tissulaire.</b> <i>Bull. Soc. Chim. Biol.</i> 1963; 5(2-3): 185-202.
4	Pruett RC, Schepens CL, Constable IJ, Swann DA. <b>Hyaluronic acid vitreous substitute.</b> In: <i>Vitreous Surgery and Advances in Fundus Diagnosis and Treatment</i> . Freeman H.M., et al., Editors. Appleton-Century-Crofts, 1977: Chapter 55. pp. 433-444.

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4	Reim M, Teping C. <b>Surgical procedures in the treatment of most severe eye burns.</b> <i>Acta Ophthalmologica</i> 1989-Supplementum 192; 67: 47-54.
4	Rydell NW, Balazs EA. <b>Effect of intra-articular injection of hyaluronic acid on the clinical symptoms of osteoarthritis and on granulation tissue formation.</b> <i>Clinical Orthopaedics and Related Research</i> 1971; 80(October): 25-29.
4	Saba P, Galeone F, Salvadorini F, Guaruglini M, Ombrato M. <b>Investigation of the antihyperlipemic activity of an association of clofibrate and extractive mucopolysaccharide complex.</b> <i>Current Therapeutic Research</i> 1978; 23(4): 455-463.
4	Stegman R, Miller D. <b>Use of sodium hyaluronate in severe penetrating ocular trauma.</b> <i>Acta Ophthalmol.</i> 1986; 18: 9-13.
4	Trabucchi E, Foschi D, Marazzi M, Radaelli E, Lucianetti A, Rizzitelli E, Baratti C, et al. <b>Prevention of wound dehiscence in severely obese patients with jejuno-ileal by-pass: The role of hyaluronic acid.</b> <i>Pharmatherapeutica</i> 1988; 5(4): 233-239.
4	Sertoli P, Merello A, Parodi M. <b>L'acido jaluronico, per uso topico, nella cura delle ulcere trofocircolatorie degli arti inferiori. (Comunicazioni).</b> <i>Giornale Italiano di Dermatologia</i> 1970; 45(8): 468-471.
4	Walther, M. <b>The Prevention of Striae Cutis Distansae During Pregnancy.</b> <i>Mineva Gynecologica</i> (1981) Vol. 33: 497-499

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W	Weirich, E.G., Longauer, J.K., Kirkwood, A.H. <b>Dermatopharmacology of salicylic acid. III. Topical contrainflammatory effect of salicylic acid and other drugs in animal experiments.</b> <i>Dermatologica</i> (1976); 152(2): 87-99
EXAMINER <i>E. Welch</i>	DATE CONSIDERED <i>6/6/96</i>
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

FORM PTO-1449 (Rev. 2-22)	U. S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. P-0800(0)-3	SERIAL NO. 08/462,147
Information Disclosure Statement by Applicant  (Use several sheets if necessary)		APPLICANT Hyal Pharmaceutical Corporation	
		FILING DATE June 5, 1995	GROUP 1211

## U.S. PATENT DOCUMENTS

## FOREIGN PATENT DOCUMENTS

Exmr Initial	Document Number	Date	Country	Class	Sub Class	Translation YES / NO
6	AUB14534/88	11/10/90	Australia			
6a	WO88/07060	09/22/88	PCT			
6	AUB17459/88	12/15/88	Australia			
6	WO89/05645	06/29/89	PCT			
6	62-201825	09/05/87	Japan (English Translation)			
6	62-287041	11/17/89	Japan (English Translation)			

**OTHER DOCUMENTS**  
(Including Author, Title, Date, Pertinent Pages, Etc.)

Examiner	C. Redler	Date Considered	6-6-96
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\*This was taken from Application Serial No. 07/675,908

## CITATION OF PRIOR ART

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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
CV	5,166,331	11-1991	Fidia Nella Valle	—	—	

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
CV	14534/88	11-1990	Australia	—	—	
CV	15456/88	09-1988	Australia	—	—	
CV	17459/88	08-1991	Australia	—	—	
CV	29145/89	06-1989	Australia	—	—	
CV	62201825		Japan - English translation			
CV	62287041		Japan - English translation			

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)


EXAMINER CV Peale	DATE CONSIDERED 6-6-96
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\*This was taken from Application Serial No. 07/838,674



FORM PTO-1449 (Rev. 1-22)	U. S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. P-0800(O)-3	SERIAL NO. 08/462,147
Information Disclosure Statement by Applicant (Use several sheets if necessary)		APPLICANT Hyal Pharmaceutical Corporation	
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## U. S. PATENT DOCUMENTS

Exmr Inventor	Document Number	Date	Name	Class	Sub Class	Filing Date
lA	4,141,973	2/79	Balazs			A
lA	4,582,865	4/86	Balazs et al.			A
lA	4,636,524	1/87	Balazs et al.			A
lA	4,711,780	12/87	Fahim			A
lA	4,725,585	2/88	Wenge et al.			A
lA	4,736,024	4/88	Della Valle et al.			A
lA	4,755,544	7/88	Makino et al.			A
lA	4,795,741	1/89	Leschner et al.			A
lA	4,801,619	1/89	Lindblad			A
lA	4,808,576	2/89	Schultz et al.			A
lA	4,814,176	3/89	Makino et al.			A
lA	4,840,941	6/89	Ueno et al.			A
lA	4,851,521	7/89	della Valle et al.			A
lA	4,937,254	6/90	Sheffield et al.			A
lA	4,957,744	9/90	della Valle et al.			A

## FOREIGN PATENT DOCUMENTS

Exmr Inventor	Document Number	Date	Country	Class	Sub Class	Translati on YES : NO
lA	0 138 572	4/85	Europe			A
lA	0 179 442	4/86	Europe			A
lA	0 197 718	10/86	Europe			A
lA	0 208 623	1/87	Europe			A
lA	0 216 453	4/87	Europe			A
lA	0 224 987	6/87	Europe			A
lA	0 240 098	10/87	Europe			A
lA	0 265 116	4/88	Europe			A

OTHER DOCUMENTS  
(Including Author, Title, Date, Pertinent Pages, Etc.)

lA		Blakeslee, S., "Solid cores of tumors keeping out best drugs", July 8, 1989	A
		edition of <u>The Globe and Mail</u> , Toronto, Ont., p. D4	A
lA		Harrison, P., "Toxic drug tamed but still potent", <u>Ontario Medicine</u> , Vol. 8, No. 16, 8/21/89, p. 1	A
		The Merck Index, Eleventh Edition, Centennial Edition, Hyaluronic Acid formulation, pp. 751-752	A
lA		Braun, DP et al., "Modulation of Immunity in Cancer Patients by Prostaglandin Antagonists", <u>Immunity to Cancer II</u> , 1989, pp 439-448, Alan R. Liss, Inc.,	A + B

Examiner	<i>W. Kehler</i>	Date Considered	<i>6696</i>
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Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449  
(Rev. 2-32)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.  
P-0800(O)-3SERIAL NO.  
08/462,147Information Disclosure  
Statement by Applicant

(Use several sheets if necessary)

APPLICANT  
Hyal Pharmaceutical CorporationFILING DATE  
June 5, 1995GROUP  
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## U.S. PATENT DOCUMENTS

Exmr Initial	Document Number	Date	Name	Class	Sub Class	Filing Date
LY	4,965,353	10/90	della Valle et al.			A
LY	4,970,298	11/90	Silver et al.			F
LY	4,684,627	8/87	LeVeen et al.			A
LY	4,303,676	12/81	Balazs			A
LY	5,166,331	11/92	della Valle et al.			E
LY	5,095,037	3/92	Iwamitsu et al.			E
LY	2,583,096	1/52	Hididian et al.			F
LY	3,436,454	4/69	Nouvel			F
LY	3,887,703	6/75	Manoussos et al.			F
LY	4,272,522	6/81	Balazs			F
LY	4,716,224	12/87	Sakurai et al.			F
LY	4,853,226	8/89	Machida et al.			F
LY	4,946,870	8/90	Partain, III. et al.			F

## FOREIGN PATENT DOCUMENTS

Exmr Initial	Document Number	Date	Country	Class	Sub Class	Translation YES / NO
LY	0 270 317	6/88	Europe			A
LY	0 285 357	10/88	Europe			P
LY	0 287,210	10/88	Europe			P
LY	0 295 092	12/88	Europe			P
LY	0 296 740	12/88	Europe			P
LY	0 312 208		Europe (abstract only)			P
LY	0 341 745	5/89	Europe			P
LY	0 244 718	4/87	Europe			P
LY	0 378,852	7/90	Europe			P

OTHER DOCUMENTS  
(Including Author, Title, Date, Pertinent Pages, Etc.)

LY		Goodwin, J.S., Prostaglandin E and Cancer Growth: Potential for Immunotherapy with Prostaglandin Synthesis Inhibitors, <u>Augmentive Agents in</u>
		Cancer Therapy, Raven Press, New York (1981), pp 393-415
LY		Asculai, Dr. S., "Inactivation of Herpes Simplex Viruses by Nonionic
		Surfactants", <u>Antimicrobial Agents and Chemotherapy</u> , 4/78, pp. 686-690
LY		Sneader, W.E., <u>Chemical Abstracts</u> , vol. 76, no. 10, "Possible Mechanism for
		Action of DMSO on Percutaeous absorption, <u>J. Pharm. Pharmacol.</u> , 1971, 23 (Supp)

Examiner

C. Keele

Date Considered

6-9-6

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FORM PTO-1449 (Rev. 2-32)	U. S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. P-0800(O)-3	SERIAL NO. 08/462,147
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Exmr Initial	Document Number	Date	Country	Class	Sub Class	Translation YES   NO
6	1,205,031	5/86	Canada			
6	1,240,929	8/88	Canada			
✓	2,031,880	12/90	Canada			
6	63/045223	2/88	Japan (w/abstract)			
✓	61000017	1/86	Japan (w/abstract)			
	1287041		Japan (abstract only)			
6	62201825	1987	Japan (w/abstract)			
6	62201825	9/87	Japan (translation)			X
6	62287041	11/89	Japan (translation)			X
6	A11678/88	5/88	Japan (laid open) (see 1-287041 above)			X
6	61-233622	10/86	Japan (w/ abstr)			X
6	57-183707	11/82	Japan (translation) (corrected date)			X

## OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages, Etc.)

1	International Preliminary Examination Report for PCT/CA90/00306 and attachment substitute claims	D
2	Alaverdyan et al., "Effect of hyaluronidase, hyaluronic acid, and some other substances on postradiational experimental bacteriemia".	F
3	Bulletin of Experimental Biology & Medicine 1967: 64(9): 967-969	
4	Balazs et al. "The rheological properties and biological funtion of hyaluronic acid". Chem. and Mol. Biol. of the Intercellular Matrix, Vol. 3, 1970, pp 1241-1253	F

Examiner	<i>Dr. R. P. Dr.</i>	Date Considered	6/6/96
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U	AUB14534/88	11/90	Australia (corrected date)			
U	AUB17459/88	12/88	Australia			
U	B-72117/87	12/87	Australia			
U	B-17459/88	12/88	Australia			
U	30806/84	7/84	Australia			
U	769,287	3/57	UK			
U	1,283,892	8/72	GB			
U	2,099,826-A	12/82	GB			
U	2364373	10/75	Germany			X
U	WO88/07060	9/88	PCT			
U	WO89/07932	9/89	PCT			
U	WO91/04058	4/91	Intrnat'l Search Report (corresponds to U.S. Appl.)			
U	WO88/07060	9/88	PCT (submitted twice)			
U	WO89/05649	6/89	PCT			

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U		Balezs E.A. et al. "Hyaluronic acid: Its structure and use", <u>Cosmetics &amp; Toiletries, Polymers in Cosmetics 1984; 99: 65-72</u>	F
		Camber O. et al. "Diffusion of some low molecular weight compounds in sodium hyaluronate", <u>Acta Pharmaceutica Suecica 1985; 22(6): 315-320</u>	
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Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 (Rev. 2-32)	U. S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. P-0800(O)-3	SERIAL NO. 08/462,147
Information Disclosure Statement by Applicant		APPLICANT Hyal Pharmaceutical Corporation	
(Use several sheets if necessary)		FILING DATE June 5, 1995	GROUP 1211

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u	Hassan, H.G., et al., "Effects of adjuvants to local anaesthetics on their duration", Acta Anaesthesiol Scand 1985; 29: 384-388	F
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a. Reda

Date Considered

6/6/96

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<b>Information Disclosure Statement by Applicant</b>  (Use several sheets if necessary)		APPLICANT	Hyal Pharmaceutical Corporation	
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